

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number
WO 2004/072536 A1

(51) International Patent Classification⁷: **F16L 25/00**, 55/00

(21) International Application Number:
PCT/US2003/003605

(22) International Filing Date: 7 February 2003 (07.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **AGRI-CULTURAL PRODUCTS, INC.** [US/US]; 1450 E. Francis Street, Ontario, CA 91761 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HAWKINS, Stanley, E.** [US/US]; 3301 East Douglas Avenue, Visalia, CA 93292 (US). **MATLOCK, James, A.** [US/US]; 904 Sunset Hills Lane, Redlands, CA 92373 (US). **MIYASATO, Wayne, M.** [US/US]; 405 East Center Street #207, Anaheim, CA 92805 (US).

(74) Agent: **DAWES, Daniel, L.**; Myers Dawes Andras & Sherman LLP, 19900 MacArthur Boulevard, Suite 1150, Irvine, CA 92612 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

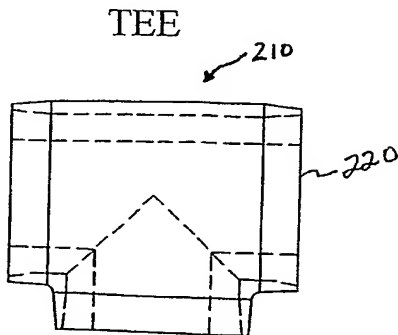
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IRRIGATION CONNECTORS



(57) Abstract: An inventory of connectors or fittings for agricultural and landscape irrigation applications and method that simplifies the manufacturing process by designing the connectors so that they share basic common body parts (210,310). The parts are manufactured individually by injection molding and assembled using sonic welding. The common body parts shared greatly minimize the number of molds necessary to manufacture a complete line of fittings.

BEST AVAILABLE COPY

WO 2004/072536 A1